

## Product datasheet for **RC215229**

### SLC39A4 (NM\_017767) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A4 (NM_017767) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC39A4
Synonyms:	AEZ; AWMS2; ZIP4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC215229 representing NM\_017767  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGGACGTTGTTGGACTTGAAGGGAAACAGGCCCTCGGGGAAGCCCCTGGCCAGGCCCTGCCTCTCC  
 CCTCCCTGGTGGGCCAGCGCCCCTGCTCACTTGTCTCTGCCACAGTGCCTGTCTGTGGAGGACGCCCT  
 GGGCCTGGGCGAGCCTGAGGGGTGAGGGCTGCCCCGGGCCCGGTCTGGAGGCCAGTACGTCGCCCGC  
 CTCAGTGCCGCCCGCTCCTGTACTCAGCAACCCCGAGGGCACCTGTGAGGACGCTCGGGCTGGCCTCT  
 GGGCCTCATGCAGACCACCTCCTGGCCTGCTCGAGAGCCCCAAGGCCCTGACCCCGGCCCTGAGCTG  
 GCTGCTGCAGAGGATGCAGGCCCGGGTCCCGGCCAGACCCCAAGACGGCCTGCGTAGATATCCCTCAG  
 CTGCTGGAGGAGCGGTGGGGCGGGGGTCCGGGCAGTGTGGCGCGTCTGGCTGCCCTGCTGGACC  
 ATGTCAGGAGCGGTCTTGTCCACGCCCTGCCGAGCCCTCAGTACTTCGTGGACTTTGTGTTCCAGCA  
 GCACAGCAGCGAGTCCCTATGACGCTGGCCGAGCTGTACGCTTGATGCAGCGCCTGGGGTGGGCAGG  
 GAGGCCACAGTACCACAGTATCGGCACAGGGGAGCCAGCAGCCGGGACCCTGTGCCCTCATCAGCT  
 CCAGCAACAGCTCCAGTGTGTGGACACGGTATGCCTGAGTGCCAGGGACGTGATGGCTGCATATGGACT  
 GTCGGAACAGGCTGGGGTGAACCCGAGGCCCTGGGCCAACTGAGCCCTGCCCTGCTCAAACAGCAGCTG  
 AGTGGAGCCTGCACCTCCAGTCCAGGCCCCCGTCCAGGACCAGCTCAGCCAGTCAAGAGGATATCTGT  
 ACGGCTCCCTGGCCACGCTGCTCATCTGCCTCTGCGCGGTCTTTGGCCTCCTGCTGCTGACTGCACTGG  
 CTGCAGGGGGTCAACCACTACATCCTGCAGACCTTCTGAGCCTGGCAGTGGGTGCACTCACTGGGGAC  
 GCTGTCTGCATCTGACGCCAAGGTGCTGGGGTGCATACACACAGCGAAGAGGGCCTCAGCCACAGC  
 CCACCTGGCCCTCCTGGCTATGCTGGCCGGCTCTACGCCTTCTCCTGTTTGAACCTTTCAATCT  
 CCTGCTGCCAGGACCCGGAGGACCTGGAGGACGGGCCCTGCGGCCACAGCAGCCATAGCCACGGGGGC  
 CACAGCCACGGTGTGTCCTGCAGCTGGCACCCAGCGAGCTCCGGCAGCCCAAGCCCCACGAGGGCT  
 CCCGCGCAGACCTGGTGGCGGAGGAGAGCCGGAGCTGCTGAACCCTGAGCCAGGAGACTGAGCCAGA  
 GTTGAGGCTACTGCCCTATATGATCACTCTGGCGACGCCGTGCACAACCTCGCCGACGGCTGGCCGTG  
 GCGCGCCTTCGCGTCTCCTGGAAGACCGGGTGGCCACCTCGCTGGCCGTGTTCTGCCACGAGTTGC  
 CACACGAGCTGGGGACTTCGCCCTTGTGCACGCGGGGTGTCGTCGCGCAAGCACTGCTGCTGAA  
 CCTGGCCTCCGCGCTCACGGCCTCGCTGGTCTCTACGTGGCACTCGCGTTGGAGTCAAGGAGGAGC  
 GAGGCCTGGATCCTGGCAGTGGCCACCGCCCTGTTCTCTACGTAGCACTCTGCGACATGCTCCCGCGA  
 TGTTGAAAGTACGGGACCCGCGCCCTGGCTCCTTCTGCTGACAACGTGGGCTGCTGGGCGGCTG  
 GACCGTCTGCTGCTGCTGCCCTGTACGAGGATGACATCACCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC215229 representing NM\_017767  
 Red=Cloning site Green=Tags(s)

MVDVVGLERETGPRGSPWPGLPLPSLVGPAPLLTCLCPQCLSVEDALGLGEPEGSGLPPGPVLEARYVAR  
 LSAAAVLYLSNPEGTCDARAGLWASHADHLLALLESPKALTPGLSWLLQRMQARAAGQTPKTACVDIPQ  
 LLEEAVGAGAPGSAGGVLAALLDHVRSGSCFHALPSPQYFVDFVFQHSSEVPMTLAELSALMQRLGVGR  
 EAHSDHSHRHRGASSRDPVPLISSNSSSVWDTVCLSARDVMAAYGLSEQAGVTPEAWAQLSPALLQQQL  
 SGACTSQSRPPVQDQLSQSERYLYGSLATLLICLCAVFLGLLLLTCTGCRGVTHYILQTFSLAVGALTGD  
 AVLHLTPKVLGLHTHSEEGLSPOPTWRLLAMLAGLYAFLLFENLFNLLLPRDPEDLEDGPCGHSSSHSHGG  
 HSHGVSLLQAPSELRQPKPPHEGSRADLVAEESPELLNPEPRRLSPELRLLPYMITLGDVHNFADGLAV  
 GAFASSWKTGLATSLAVFCHELPHELGDFAALLHAGLSVRQALLLNLASALTAFAAGLYVALAVGVSEES  
 EAWILAVATGLFLYVALCDMLPAMLKVRDRPWLLFLLHNVGLLGGWTVLLLLSLYEDDITF

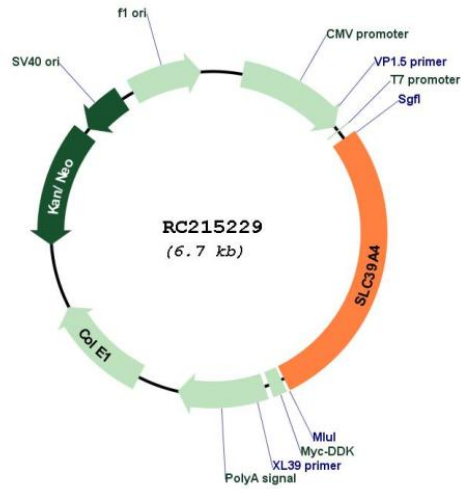
**TRTRP**LEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_017767

ORF Size: 1866 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_017767.2</a> , <a href="#">NP_060237.2</a>
<b>RefSeq Size:</b>	2317 bp
<b>RefSeq ORF:</b>	1869 bp
<b>Locus ID:</b>	55630
<b>UniProt ID:</b>	<a href="#">Q6P5W5</a>
<b>Cytogenetics:</b>	8q24.3
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	66 kDa
<b>Gene Summary:</b>	This gene encodes a member of the zinc/iron-regulated transporter-like protein (ZIP) family. The encoded protein localizes to cell membranes and is required for zinc uptake in the intestine. Mutations in this gene result in acrodermatitis enteropathica. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]